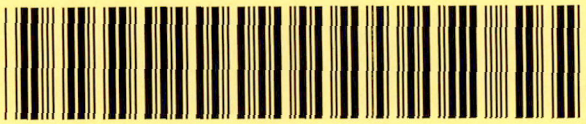
774IHSSF1230



DocumentID NONCD0002880

Site Name PATCHES BODY SHOP

DocumentType Ranking (RANK)

RptSegment 1

DocDate 1/27/2009

DocRcvd 1/27/2009

Box SF1230

AccessLevel PUBLIC

Division WASTE MANAGEMENT

Section SUPERFUND

Program IHS (IHS)

DocCat FACILITY

INACTIVE SITES RANKING SYSTEM
SUMMARY SHEET

Site Name:	Patches Body Shop		
Location:	1903 E. Green Street, High Point, Guilford County		
ID Number:	NoNCD 000 2880		
Ranked By:	Gene Mao	Date:	01/09/09
Reviewed By:	John Walch	Date:	01/27/09

Site Description/Comments:

Tetrachloroethene and trichloroethene were detected in soil and groundwater during investigation by UST state-lead program. Solvents might be used for part cleaning at the facility.

Route Scores: GW = 65.18 SW = 51.21 A = 0 P = 12.5

Total Score: $\frac{((65.18)^2+(51.21)^2+(0)^2+(12.5)^2)^{1/2}}{2} = 41.91$

I. GROUND WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Score
A. Route Characteristics		
1. Depth to Water Table	0 2 4 6 **[8]** 10	
2. Net Precipitation	0 **[1]** 2 3	
3. Hydraulic Conductivity	0 1 **[2]** 3	
4. Physical State	0 1 2 **[3]**	
	Total Route Characteristics Score	14
B. Containment	0 1 2 **[3]**	3
C. Waste Characteristics		
1. Toxicity/Persistence	0 3 6 9 12 15 **[18]**	
2. Hazardous Waste Quantity	0 1 2 3 4 **[5]** 6 7 8	
	Total Waste Characteristics Score	23

Ground Water Route of Migration Score

The Ground Water Route of Migration Score is obtained by multiplying lines A, B, and C and dividing this by 14.82 to give a score between 0 and 100.

Total Ground Water Route of Migration Score: 65.18

II. SURFACE WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Score
A. Route Characteristics		
1. Facility Slope and Intervening Terrain	0 [1] 2 3	
2. 1-yr., 24-hour Rainfall	0 [1] 2 3	
3. Distance to Nearest Surface Water	0 2 4 [6] 8 10	
4. Physical State	0 1 2 [3]	
	Total Route Characteristics Score	11
B. Containment	0 1 2 [3]	3
C. Waste Characteristics		
1. Toxicity/Persistence	0 3 6 9 12 15 [18]	
2. Hazardous Waste Quantity	0 1 2 3 4 [5] 6 7 8	
	Total Waste Characteristics Score	23

Surface Water Route of Migration Score

The Surface Water Route of Migration Score is obtained by multiplying lines A, B, and C and dividing this by 14.82 to give a score between 0 and 100.

Total Surface Water Route of Migration Score: 51.21

III. AIR ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Score
A. Waste Characteristics		
1. Reactivity and Incompatibility	0 1 2 3	
2. Toxicity	0 3 6 9	
3. Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	
	Total Waste Characteristics Score	
B. Targets		
1. Population Within a 4-Mile Radius	0 9 12 15 18 21 24 27 30	
2. Distance to Sensitive Environment	0 2 4 6	
3. Land Use	0 1 2 3	
	Total Targets Score	

Air Route of Migration Score

The Air Route of Migration Score is obtained by multiplying lines A and B and dividing this by 7.80 to give a score between 0 and 100.

Total Air Route of Migration Score: Not Scored

IV. DIRECT CONTACT ROUTE SCORE SHEET

Rating Factor	Assigned Value (Circle One)	Score

A. Residential Population

1. Toxicity — 0 3 6 9

2. Targets

a) High Risk Population (count x 8, max. 100) — _____

b) Total Resident Population (count x 2, max. 100) — _____

c) Sensitive Environment — 0 10 15 20 25

Resident Target Score (lines 2a + 2b + 2c, max. 100) — _____

Total Residential Population Score: Not Scored

B. Nearby Population

1. Likelihood of Exposure (matrix score) — 0.25

a) Area of Contamination — 0 [25] 50 75 100

b) Accessibility/ Frequency of Use — 5 25 50 [75] 100

2. Toxicity — 0 3 6 [9]

3. Targets (max. 100) — 100

Total Nearby Population Score: 225

Overall Population Exposure Score

The Overall Population Exposure Score is determined by adding lines A and B and dividing this by 18 to give a score between 0 and 100.

Total Population Exposure Route of Migration Score: 12.5

DOCUMENTATION RECORDS
FOR
STATE HAZARD RANKING SYSTEM

INSTRUCTIONS: Briefly summarize the information you used to assign a score to each factor and document the source of the information and/or the rationale for each score.

Facility Name:	Patches Body Shop
ID Number:	NCD 000 2880
Location:	1903 E. Green Street, High Point, Guilford County
Date Scored:	01/09/09
Person Scoring:	Gene Mao
Factors Not Scored:	Air Route, Residential Population

Comments:

References:

1. Patches Body Shop (High Point, Guilford Co.), NC.Superfund Section State File, c/o Guilford Co. Env. Health, Greensboro, NC

1. ~~US Geological Survey Topographic Map, _____, NC, Quadrangle, _____, Photorevised ____.~~

2. North Carolina Atlas, University of NC Press, Chapel Hill, NC, 1975.

3. Rainfall Frequency Atlas of the US, Technical Paper 40, US Department of Commerce, Washington, DC, 1963.

4. 2000 Census of Population and Housing: Summary Population and Housing Characteristics: North Carolina, US Department of Commerce. http://quickfacts.census.gov/qfd/. High Point, NC, Guilford County

5. Dangerous Properties of Industrial Materials, N. Irving Sax, Van Reinhold Company, Inc., 1984.

6. 40 CFR 300, Appendix A, July 1, 1988.

GROUND WATER ROUTE

A. Route Characteristics:

1. Depth to Water Table:

8: TCE and PCE in groundwater (1)

2. Net Precipitation:

1: mean annual precipitation = 44"/yr mean annual evaparation = 40"/yr net : 44 - 40 = 4" (2)

3. Hydraulic Conductivity of Unsaturated Zone:

2: Piedmont & mountains, no data (1)

4. Physical State:

3: liquid used for part cleaning (1)

B. Containment:

3: no containment (1)

C. Waste Characteristics:

1. Toxicity/Persistence:

18: PCE and TCE (1,5)

2. Hazardous Waste Quantity:

5: Quantity unknown (1)

SURFACE WATER ROUTE

A. Route Characteristics:

1. Facility Slope and Intervening Terrain:

1: surface slope & terrain ~ 3% (1)

2. One-year 24-hour Rainfall:

1: 2.5 to 3.0 inches (3)

3. Distance to Nearest Surface Water/Name:

6: ~ 1000' to unnamed creek (1)

4. Physical State:

3: liquid (1)

B. Containment:

3: no containment (1)

C. Waste Characteristics:

1. Toxicity/Persistence:

18: PCE and ~~TEC~~ TCE (1,5)

2. Hazardous Waste Quantity:

5; quantity unknown (1)

Not scored

AIR ROUTE

A. Waste Characteristics:

1. Reactivity and Incompatibility:

2. Toxicity:

3. Hazardous Waste Quantity:

B. Targets:

1. Population within 4-mile Radius/Distance from Hazardous Substance:

2. Distance to Sensitive Environment:

3. Land Use:

POPULATION EXPOSURE ROUTE

A. Residential Population: Not scored

1. Toxicity:

2. Targets:

   a. High Risk Population:

   b. Total Resident Population:

   c. Sensitive Environment:

B. Nearby Population:

1. Likelihood of Exposure Score:

   a. Area of Contamination:

   25: < 1 acre (1)

   b. Accessibility/Frequency of Use:

   75: no barrier (1)

2. Toxicity:

   9: PCE and TCE (1,5)

3. Targets: 0.1 (1373.8) + 0.05 (4121.3) = 343.4 ---> 100 max

   a. 0 - ½ mile: 3.14 (0.5^2) x1750 people/sq.mi = 1373 (4)

   b. ½ - 1 mile: 3.14 ($1^2 - 0.5^2$) x1750 people/sq.mi. = 4121.3 (4)